

1/24

FIG. 1

|              |        |             |             |         |              |        |            |             |        |     |
|--------------|--------|-------------|-------------|---------|--------------|--------|------------|-------------|--------|-----|
| SEQ ID NO: 3 | *<br>} | M-AAIASSDI  | RQKREVP     | PG      | GSRPVSAQRR   | VCP    | PRGT-KSL   | CQKQLLILLS  | 48     |     |
| SEQ ID NO: 1 |        | MAAAIASSLI  | RQKROARESN  |         | SDRVSAKRR    | SSP    | SKDGRSL    | CERHVLGVFS  | 50     |     |
| SEQ ID NO: 4 |        | MAAAIASSGLI | RQKROAREQH  |         | WDRPSASRRR   | SSP    | SKN-RGL    | CNGNLVDIFS  | 49     |     |
| SEQ ID NO: 2 |        | MAAAIASSLI  | RQKROARERE  |         | KSN--ACKCV   | SSP    | SKG-KTS    | CDKNKLNVS   | 47     |     |
| hFHF-3       |        | KVRLCGRPA   | RPDRGPEPQL  |         | KGIVTKLFCR   | QGFY   | LQANPD     | GSIQ        | GTPEDT | 98  |
| hFHF-1       |        | KVRFCSGRKR  | PVFRRPPEPQL |         | KGIVTRILFSQ  | QGFY   | LQMHPD     | GTID        | GTKDEN | 100 |
| hFHF-4       |        | KVTIFGLKKR  | RLRRQ-DPQL  |         | KGIVTRILYCR  | QGFY   | LQMHPD     | GALD        | GTKDDS | 98  |
| hFHF-2       |        | RVKLFGSKKR  | R-FRRPEPQL  |         | KGIVTKLYSR   | QGFY   | LQLQAD     | GTID        | GTKDED | 96  |
| hFHF-3       |        | SSFTHFNLIIP | VGLRVVVIQ   | IOS     | AKLGHYMMAMN  | AEGILY | SSPH       | FTAECR      | FEKEC  | 148 |
| hFHF-1       |        | SDYTLFNLIIP | VGLRVVAIQ   | IOG     | VKASILYMMAMN | GEGYLY | SDV        | FTPECK      | FEKES  | 150 |
| hFHF-4       |        | TNSTKFNLIIP | VGLTVVAIQ   | IOG     | VKTGLYIAMN   | GEGYLY | PPSEL      | FTPECK      | FEKES  | 148 |
| hFHF-2       |        | STYTLFNLIIP | VDLRVVAIQ   | IOG     | VQTKLYIAMN   | SEGYLY | ISEL       | FTPECK      | FEKES  | 146 |
| hFHF-3       |        | VFENYYVLIYA | SALYRQRRSG  |         | RAWYLGLOKE   | GQVM   | MKGNRVK    | KIKAAAHFLP  |        | 198 |
| hFHF-1       |        | VFENYYVLIYS | STLYRQQESG  |         | RAWELGLNKE   | GQIM   | MKGNRVK    | KIKPSSSHFVP |        | 200 |
| hFHF-4       |        | VFENYYVLIYS | SMLYRQQESG  |         | RAWELGLNKE   | GQAM   | MKGNRVK    | KIKPAAHFLP  |        | 198 |
| hFHF-2       |        | VFENYYVLIYS | SMLYRQQESG  |         | RGWYLGGLNKE  | GEIM   | MKGNHVK    | KNKPAAHFLP  |        | 196 |
| hFHF-3       |        | KLLEVAMYQE  | PSLH        | SVPEAS  | PSS---       | PP--   | -----      | ----        | AP     | 225 |
| hFHF-1       |        | KPIEVQMYRE  | PSLH        | HEIGE-- | -KQG--       | RSRK   | SSGTPTMNGG | KVVNQ-DST   |        | 243 |
| hFHF-4       |        | KPLEVAMYRE  | PSLH        | DVGFTV  | PKPGBYPSKS   | TSASA  | IMNGG      | KPVNKS      | TT     | 247 |
| hFHF-2       |        | KPLKVAMYKE  | PSLH        | DBGETV  | RSGSGTPTKS   | TSBS   | GBLNGG     | KSM         | SHNEST | 245 |

2/24

FIG. 2A

|              |              |              |             |   |             |     |
|--------------|--------------|--------------|-------------|---|-------------|-----|
| SEQ ID NO: 1 | MAAAIASSLI   | SDRVASAKRR   | SSPSKDGRL   | ° | CERHVLVGFS  | 50  |
| SEQ ID NO: 4 | MAAAIASGLI   | WDRPSASRRR   | SSPSKN-RGL  |   | CNGNLVDIFS  | 49  |
| SEQ ID NO: 2 | MAAAIASGLI   | KSN--ACKCV   | SSPSKG-KTS  |   | CDKNKLNVS   | 47  |
| SEQ ID NO: 3 | M-AALASSLI   | GSRPVSAQRR   | VCPRGT-KSL  |   | CQKQLLILLS  | 48  |
| SEQ ID NO: 7 | M-APLGE--V   | P-----       | VLPVDS-PVL  |   | ----LSDMLG  | 38  |
| SEQ ID NO: 5 | M-AEAGE---   | -----        | ALTE---KF   |   | -----NLP    | 19  |
| SEQ ID NO: 6 | M--AAGS---   | -----        | APLEDGSG--  |   | -----AFP    | 22  |
| hFHF-1       | °KVRFCSGRKR  | °KGI°VTR--LF | °SQ°-GYFLQM |   | HPDGTIDGTK  | 97  |
| hFHF-4       | KVRI°FGLKKR  | KGI°VTR--LY  | CRQ-GYFLQM  |   | HPDGALDGTK  | 95  |
| hFHF-2       | RVKLEFGSKKR  | KGI°VTK--LY  | SRQ-GYHLQL  |   | QADGTIDGTK  | 93  |
| hFHF-3       | KVRLCGGRPA   | KGI°VTK--LF  | CRQ-GFYLQA  |   | NPDGSIQGTP  | 95  |
| hFGF-9       | QSEAGGLPRG   | KGILRRRQLY   | CRT-GFHLEI  |   | FPNGTOQGTR  | 86  |
| hFGF-1       | PGNY----K-   | -----        | CSNGGMFLRI  |   | LPDGTVDGTR  | 50  |
| hFGF-2       | PGHF----K-   | -----        | CKNGGFFLRI  |   | HPDGRVDGVR  | 53  |
| hFHF-1       | °DENS°DYTLFN | °IQ°GVKASLYC | AMNGEGYLYS  | ° | SDVFTPECKF  | 147 |
| hFHF-4       | DDSTNSTL°FN  | °IQ°GVKTGLYI | AMNGEGYLYP  |   | SELEFTPECKF | 145 |
| hFHF-2       | DEDSTYTLFN   | °IQ°GVQTKLYL | AMNSEGYLYT  |   | SELEFTPECKF | 143 |
| hFHF-3       | EDTSSFTTHFN  | IRGVDSGLYL   | GMNEKGELYG  |   | SPHFTAECRF  | 145 |
| hFGF-9       | KDHSRFGILE   | IRGBDSGLYL   | SMNEKGELYG  |   | SEKLTQECVF  | 136 |
| hFGF-1       | DRSDQHIQLQ   | IKSTETGQYL   | AMTDGLLYG   |   | SQTPNEECLE  | 100 |
| hFGF-2       | EKSDPHIKLQ   | IKGVCANRYL   | AMKEDGRLLA  |   | SKCVTDECFF  | 103 |

3/24

FIG. 2B

|        |   |  |  |  |                          |     |
|--------|---|--|--|--|--------------------------|-----|
| hFHF-1 | KESV <sup>o</sup> FEN <sup>o</sup> Y <sup>o</sup> V | IYSTLYR <sup>o</sup> Q <sup>o</sup> Q  | ESGRAWFL <sup>o</sup> GL               | NK <sup>o</sup> EGQIM <sup>o</sup> KGN | RVKKT <sup>o</sup> KPSSH | 197 |
| hFHF-4 | KESV <sup>o</sup> FENY <sup>o</sup> V               | IYSSMLYR <sup>o</sup> Q <sup>o</sup> Q | ESGRAWFLGL                             | NKEGQAMKGN                             | RVKKT <sup>o</sup> KPAAH | 195 |
| hFHF-2 | KESV <sup>o</sup> FENY <sup>o</sup> V               | TYSSMIYR <sup>o</sup> Q <sup>o</sup> Q | QSGRGWYLGL                             | NKEGEIMKGN                             | HVKKNK <sup>o</sup> PAAH | 193 |
| hFHF-3 | KECV <sup>o</sup> FENY <sup>o</sup> V               | LYASALYR <sup>o</sup> Q <sup>o</sup> R | RSGRAWYLGL                             | DKEGQVMKGN                             | RVKKT <sup>o</sup> KAAAH | 195 |
| hFGF-9 | REQF <sup>o</sup> EENWYN                            | TYSSNLYKHV                             | DTGRRYYVAL                             | NKDGT <sup>o</sup> PREGT               | RTKRHQKFTH               | 186 |
| hFGF-1 | LERLEE <sup>o</sup> NHYN                            | TYISK <sup>o</sup> KHAEK               | ----NW <sup>o</sup> FVGL               | KKNGSC <sup>o</sup> KRGP               | RTHYGQKAIL               | 146 |
| hFGF-2 | FERLES <sup>o</sup> NNYN                            | TYRSRKYT--                             | ----SW <sup>o</sup> YVAL               | KRTGQYK <sup>o</sup> LGS               | KTGPGQKAIL               | 147 |
| hFHF-1 | FVPK <sup>o</sup> PIEV <sup>o</sup> CM              | YREP <sup>o</sup> SLHEIG               | E <sup>o</sup> ---KQ <sup>o</sup> G--R | SRKSSG <sup>o</sup> TP <sup>o</sup> TM | NGGKV <sup>o</sup> VNQ-D | 241 |
| hFHF-4 | FLPK <sup>o</sup> PLEVAM                            | YREP <sup>o</sup> SLHDVG               | ETVPKPGVTP                             | SKSTSASAIM                             | NGGKPVN <sup>o</sup> KSK | 245 |
| hFHF-2 | FLPK <sup>o</sup> PLKVAM                            | YKEP <sup>o</sup> SLHDLT               | EFSRSGSGTP                             | TKSRSVSGVL                             | NGGKSMSHNE               | 243 |
| hFHF-3 | FLPK <sup>o</sup> LLEVAM                            | YQEP <sup>o</sup> SLHSVP               | EASPSS---P                             | P-----                                 | -----                    | 223 |
| hFGF-9 | FLPRPVD <sup>o</sup> PD-                            | -KVPELY---                             | ---KD---                               | -----IL                                | S-----                   | 206 |
| hFGF-1 | FLPLPVS---  | -----                                  | -----                                  | -----                                  | -----                    | 153 |
| hFGF-2 | FLPMSAKS--  | -----                                  | -----                                  | -----                                  | -----                    | 155 |
| hFHF-1 | ST  |  |  |  |                          | 243 |
| hFHF-4 | TT  |  |  |  |                          | 247 |
| hFHF-2 | ST  |  |  |  |                          | 245 |
| hFHF-3 | AP  |  |  |  |                          | 225 |
| hFGF-9 | QS  |  |  |  |                          | 208 |
| hFGF-1 | SD  |  |  |  |                          | 155 |
| hFGF-2 | --  |  |  |  |                          | 155 |

**FIG. 3A**

[illegible]

5/24

FIG. 3B

|        |             |             |             |             |              |     |
|--------|-------------|-------------|-------------|-------------|--------------|-----|
| mEGF-8 | MGSRPS      | ---ALSC     | LLVLC       | QVTVQSSPNF  | T-----QHVR   | 37  |
| mEGF-3 | MGLIWLL     | ---SLEPSW   | ---PT-      | -TGPGTRLR-  | -----RDA-    | 29  |
| hEGF-5 | MSLSFLL     | FSHLILSAWA  | HGEKRLAPKG  | QPGPAATDRN  | PIGSSSRQSS   | 50  |
| hEGH-6 | MRSGAGRLQ   | ---GTLWA--L | VFLGILVGMV  | VPSAPAGTRAN | NTLLD-SRGW   | 47  |
| hEGF-4 | MSGPGTAAV   | ---ALLPAVLL | ALLAPWAGRG  | GAAAPTAPNG  | YLEARLRTTW   | 47  |
| hEGF-7 | M-HKWIL---  | ---TWILPTLL | -TRSCFHIIC  | LVGTISLACN  | DMT-----PEQ- | 39  |
| mEGF-2 | MTAAIAS---  | ---SLIRQKRQ | AREREKSN--  | ACKCVSSPSK  | G-----KTSC   | 38  |
| hFHF-2 | MAAAIAS---  | ---SLIRQKRQ | AREREKSN--  | ACKCVSSPSK  | G-----KTSC   | 38  |
| mFHF-4 | MAAAIAS---  | ---GLIRQKTQ | AREQHWDPRS  | ASRRRSSISL  | N-----RGLF   | 40  |
| mFHF-4 | MAAAIAS---  | ---GLIRQKRQ | AREQHWDPRS  | ASRRRSSPSK  | N-----RGLC   | 40  |
| mFHF-1 | MAAAIAS---  | ---SLIRQKRQ | ARESNSDRVS  | ASKRRSSPSK  | D-----GRSLC  | 41  |
| hFHF-1 | MAAAIAS---  | ---SLIRQKRQ | ARESNDRVS   | ASKRRSSPSK  | D-----GRSLC  | 41  |
| mEGF-3 | M-AALAS---  | ---SLIRQKRQ | BREPGGSRPV  | SAQRRVCPRG  | T-----KSLC   | 39  |
| hFHF-3 | M-AALAS---  | ---SLIRQKRQ | BREPGGSRPB  | SAQRRBCPRG  | T-----KSLC   | 39  |
| hFHF-9 | M-APLGE---  | ---VGNFYFG  | VQDAVP----  | FGNVPVLPVD  | S-----PVL-   | 32  |
| hEGF-2 | MAAFSIT---  | ---TL-----  | -----       | -----PALPED | G-----GSG--  | 19  |
| hEGF-1 | MAEGEIT---  | ---TF-----  | -----       | -----TALTE- | -----KF----  | 16  |
| mEGF-8 | E-----QSLVT | DQL-----SRR | LIRTYQ----  | -----       | LYSR-TSGKH   | 64  |
| mEGF-3 | -----GGR    | -----GGR    | GGVYEHLG--  | -GAPRRR--K  | LYC--ATKYH   | 55  |
| hEGF-5 | SSAMSSSSAS  | SSPAASLGSR  | GSGLEQSSFQ  | WSPSGRRTGS  | LYCRVIGIGFH  | 100 |
| hEGH-6 | GTL--LSRSR  | AGLAGE--IA  | GVNWESG-YL  | VGIKRQR--R  | LYCNVIGIGFH  | 87  |
| hEGF-4 | ESLVALSLAR  | LPVAAQPKFA  | AVQSGAGDYL  | LGIKRRL--R  | LYCNVIGIGFH  | 95  |
| hEGF-7 | -----MATNV  | NCSSPERHTR  | SYDYMEG---- | -GDIRVR--R  | LFCTRQWYLR   | 78  |
| mEGF-2 | DKNKLNVSFR  | VKLFGSKKRR  | -RRRPEPQ-L  | KGIV-TK--   | LYSR-Q-GYH   | 80  |
| hFHF-2 | DKNKLNVSFR  | VKLFGSKKRR  | -RRRPEPQ-L  | KGIV-TK--   | LYSR-Q-GYH   | 80  |
| mFHF-4 | NGNLVDIFSK  | VRIFGKKRR   | -LRRQDPQ-L  | KGIV-TR--   | LYCR-Q-GYY   | 82  |
| mFHF-4 | NGNLVDIFSK  | VRIFGKKRR   | -LRRQDPQ-L  | KGIV-TR--   | LYCR-Q-GYY   | 82  |
| mFHF-1 | ERHVLGVFSK  | VRFCSGRKR   | VRRRPEPQ-L  | KGIV-TR--   | LFsq-Q-GYF   | 84  |
| hFHF-1 | ERHVLGVFSK  | VRFCSGRKR   | VRRRPEPQ-L  | KGIV-TR--   | LFsq-Q-GYF   | 84  |

6/24

FIG. 3C

|        |                    |                  |                 |            |                 |     |
|--------|--------------------|------------------|-----------------|------------|-----------------|-----|
| mEHF-3 | QKQLLILLSK         | VRLCGGRPTR       | QDRGPEPQ-L      | KGIV-TK--- | LFCR-Q-GFY      | 82  |
| hEHF-3 | QKQLLILLSK         | VRLCGGRPAR       | PDRGPEPQ-L      | KGIV-TK--- | LFCR-Q-GFY      | 82  |
| hFGF-9 | ---LSDHLGQ         | SEAGGLPRGP       | AVTDLD-H-L      | KGIL-RRRQ- | LYCR-T-GFH      | 73  |
| hEGF-2 | -----AFPP          | GHF-----         | ---KDPK-R       | -----      | LYCK-NGGFF      | 40  |
| hFGF-1 | -----NLPP          | GNY-----         | ---KKPK-L       | -----      | LYCS-NGGHE      | 37  |
| mEGF-8 | VQVLANKRIN         | AMAE D G S P F A | KLIVETDTFG      | SRVRVRGAET | GLYICMNNKKG     | 114 |
| mEGF-3 | EQLHPSGRVN         | GS-LENSAYS       | ILEITABEBG      | V-VAIKGLFS | GRYLAMNKP G     | 103 |
| hEGF-5 | EQIYPD G K B N     | GS-HEAMNLS       | VLEIFABSQG      | I-VGIRGVFS | NKFLAMSKKG      | 148 |
| hFGF-6 | EQVLPDGRIS         | GT-HEENPYS       | LLEISTBERG      | V-VSLFGVRS | ALEBAMNSKG      | 135 |
| hFGH-4 | EQALPDGRIG         | GA-HADTRDS       | LLELSPBERG      | V-VSIFGVAS | RFEVAMNSKG      | 143 |
| hFGF-7 | IDKR G K V K - G   | TQ-EMKN N Y N    | IMEIRTVAVG      | I-VAIKGVES | EFYLAMNSEG      | 125 |
| mEHF-2 | LQLQADGTID         | GTKDEDSTYT       | LFNLIPVGLR      | V-VAIQGVQT | KLYLAMNSEG      | 129 |
| hEHF-2 | LQLQADGTID         | GEKDEDSTYT       | LFNLIPVGLR      | V-VAIQGVQT | KLYLAMNSEG      | 129 |
| mEHF-4 | LQMHPD G A L D     | GTKDDSTNST       | LFNLIPVGLR      | V-VAIQGVKT | GLYIAMNDED      | 131 |
| hEHF-4 | LQMPHD G A L D     | GTKDDSTNST       | LFNLIPVGLR      | V-VAIQGVKT | GLYIAMN G E G   | 131 |
| mEHF-1 | LEMHPDGTID         | GTKDENS D Y T    | LFMLIPVGLR      | V-VAIQGVKA | SLTAAMNGEG      | 133 |
| hEHF-1 | LQMGPDGTID         | GTKDENS D Y T    | LFNLIPVGLR      | V-VAIQGVKA | SLYVAMNGEG      | 133 |
| mEHF-3 | LQANPD G S I Q     | GPEDTSSTFT       | HFNLIPVGLR      | V-VTIQSAKL | GHYMAMNAEG      | 131 |
| hGFG-3 | LQANPD G S I Q     | GPEDTSSTFT       | HFNLIPVGLR      | V-VTIQSAKL | GHYMAMNAEG      | 131 |
| hHGH-9 | LEIFPNGTIQ         | GTRKDH S R F G   | ILEFISIAVG      | L-VSIRGVDS | GLYLG M N E K G | 122 |
| hFGF-2 | LRIHPDGRVD         | GVREKSDPHI       | KLQLQAEERG      | V-VSIKGVCA | NRYLAMKEDG      | 89  |
| hEHF-1 | LRILPDGTVD         | GTRDRSDQHI       | QLQLSAESVG      | E-VYIKSTET | GOYLAMDTDG      | 86  |
| mEGF-8 | KLIALSNGKG         | KDCVFI E I B L   | ENNYTALQNA      | KYE-----   | -----G          | 148 |
| mEGF-3 | RLYASDHYN-         | AEC E F E R I H  | ELGYNTYASR      | LYRTGSSGPG | AQRQPGAQRP      | 152 |
| hFGF-5 | KLHASAKFT-         | DDCKFP E R F Q   | ENSYNTYASA      | IHRTEKTG-- | -----RE         | 187 |
| hFGF-6 | RLYATPSFQ-         | EECKFP E R T L L | PNNYNAYESD      | LYQGT----- | -----           | 169 |
| hFGF-4 | KL Y G S P F F T - | DECI F K E I L L | PNNYNAYESY      | KYPGM----- | -----           | 177 |
| hFGF-7 | KL Y A J J E C N - | EDCN F K E L I L | INHYN T Y A S A | KWTHNGG--- | -----E          | 162 |

7/24

FIG. 3D

|        |    |          |    |    |            |            |     |
|--------|----|----------|----|----|------------|------------|-----|
| mFHF-2 | YL | YTSEHG   | Y  | Y  | VTYSSM     | IYRQQQSG   | 168 |
| hFHF-2 | YL | YTSELFT  | Y  | Y  | VTYSSM     | IYRQQQSG   | 168 |
| mFHF-4 | YL | YPSELFT  | Y  | Y  | VIYSSM     | LYRQQESG   | 170 |
| hFHF-4 | YL | YPSELFT  | Y  | Y  | VIYSSM     | LYRQQESG   | 170 |
| mFHF-1 | YL | YSSDVFT  | Y  | Y  | VIYSSM     | LYRQQESG   | 172 |
| hFHF-1 | YL | YSSDVFT  | Y  | Y  | VIYSSM     | LYRQQESG   | 172 |
| mFHF-3 | LL | YSSPHFT  | Y  | Y  | VIYSSM     | LYRQQESG   | 170 |
| hFHF-9 | EL | YGSEKLT  | Y  | Y  | VIYSSM     | LYRQQESG   | 161 |
| hFHF-2 | RL | LASKCVT  | Y  | Y  | NTYSSM     | LYKHVDTG   | 122 |
| hFHF-1 | LL | YGSQTPN  | Y  | Y  | NTYSSM     | KYT        | 121 |
|        |    |          |    |    | ENHYNTYISK | KHAEK      |     |
| mFHF-8 | WY | MAETRKGR | Q  | Q  | SSFLPRV    | RE--VHFMR  | 187 |
| mFHF-3 | WY | VSNGKGR  | Q  | Q  | SSFLPRV    | LGHKDHMVR  | 202 |
| hFHF-5 | WY | VALNKPCK | VK | VK | ---PQH     | IS--THFLPR | 228 |
| hFHF-6 | -Y | IALSKYGR | -  | -  | ---PIM     | TV--THFLPR | 198 |
| hFHF-4 | -E | IALSKNGK | -  | -  | ---PTM     | KV--THELPR | 206 |
| hFHF-7 | MF | VALNQKGI | QK | QK | ---PIM     | -T--AHELPR | 192 |
| mFHF-2 | WY | LGLNKEGE | K  | K  | ---PIM     | PA--AHELPR | 207 |
| hFHF-2 | WY | LGLNKEGE | K  | K  | ---PIM     | PA--AHELPR | 207 |
| mFHF-4 | WY | LGLNKEGE | K  | K  | ---PIM     | PA--AHELPR | 209 |
| hFHF-4 | WY | LGLNKEGE | K  | K  | ---PIM     | PA--AHELPR | 209 |
| mFHF-1 | WY | LGLNKEGE | K  | K  | ---PIM     | PS--SHEVPK | 211 |
| hFHF-1 | WY | LGLNKEGE | K  | K  | ---PIM     | PS--SHEVPK | 211 |
| mFHF-3 | WY | LGLDKEGR | K  | K  | ---PIM     | AA--AHEVPK | 209 |
| hFHF-3 | WY | LGLDKEGR | K  | K  | ---PIM     | AA--AHEVPK | 209 |
| hFHF-9 | YY | VALNKDGT | Q  | Q  | ---PIM     | KF--THELPR | 198 |
| hFHF-2 | WY | VALKRTGQ | Q  | Q  | ---PIM     | KA--ILELPM | 155 |
| hFHF-1 | WF | VGLKNGS  | Q  | Q  | ---PIM     | KA--ILELPL | 153 |

8/24

FIG. 3E

|        |             |            |            |             |     |     |
|--------|-------------|------------|------------|-------------|-----|-----|
| mEGF-8 | SLR--FEFLN  | YP--PFTR-  | -----S     | LRGSQRTWAP  | EPR | 215 |
| mEGF-3 | GEGSQPRQRR  | OKKQSPGDHG | KMETLSTRAT | PSTQLHTGGL  | AVA | 245 |
| hEGF-5 | FTVTVP---E  | KKNPPSPIKS | KIPLSAPRKN | TNSVKYRLKF  | RFG | 268 |
| hEGF-6 | -----       | -----      | -----      | -----       | --- | 198 |
| hEGF-4 | -----       | -----      | -----      | -----       | --- | 206 |
| hEGF-7 | -----       | -----      | -----      | -----       | -IT | 194 |
| mEHF-2 | SLHDLTEFSR  | SGSGTPTKSR | -----SVSGV | LNGGKSMSHN  | EST | 245 |
| hEHF-2 | SLHDLTEFSR  | SGSGTPTKSR | -----SVSGV | LNFFKSM SHN | EST | 245 |
| mEHF-4 | SLHDLVGETVP | KAGVTPSKST | -----SASAI | MNGGKPVNKC  | KTT | 247 |
| hEHF-4 | SLHDLVGETVP | KPGVTPSKST | -----SASAI | MNGGKPVNKS  | KTT | 247 |
| mEHF-1 | SLHEIGE---  | KQG--RSRKS | -----SGTPT | MNGGKVVNQ-  | DST | 243 |
| hEHF-1 | SLHEIGE---  | KQG--RSRKS | -----SGTPT | MNGGKVVNQ-  | DST | 243 |
| mEHF-3 | SLHSVPETSP  | SS--PP--   | -----      | -----       | -AH | 225 |
| hEHF-3 | SLHSVPEASP  | SS--PP--   | -----      | -----       | -AP | 225 |
| hEGF-9 | ELY-----    | KD-----    | -----I     | LS-----     | -QS | 208 |
| hEGF-2 | -----       | -----      | -----      | -----       | --- | 155 |
| hEGF-1 | -----       | -----      | -----      | -----       | -SD | 155 |



9/24

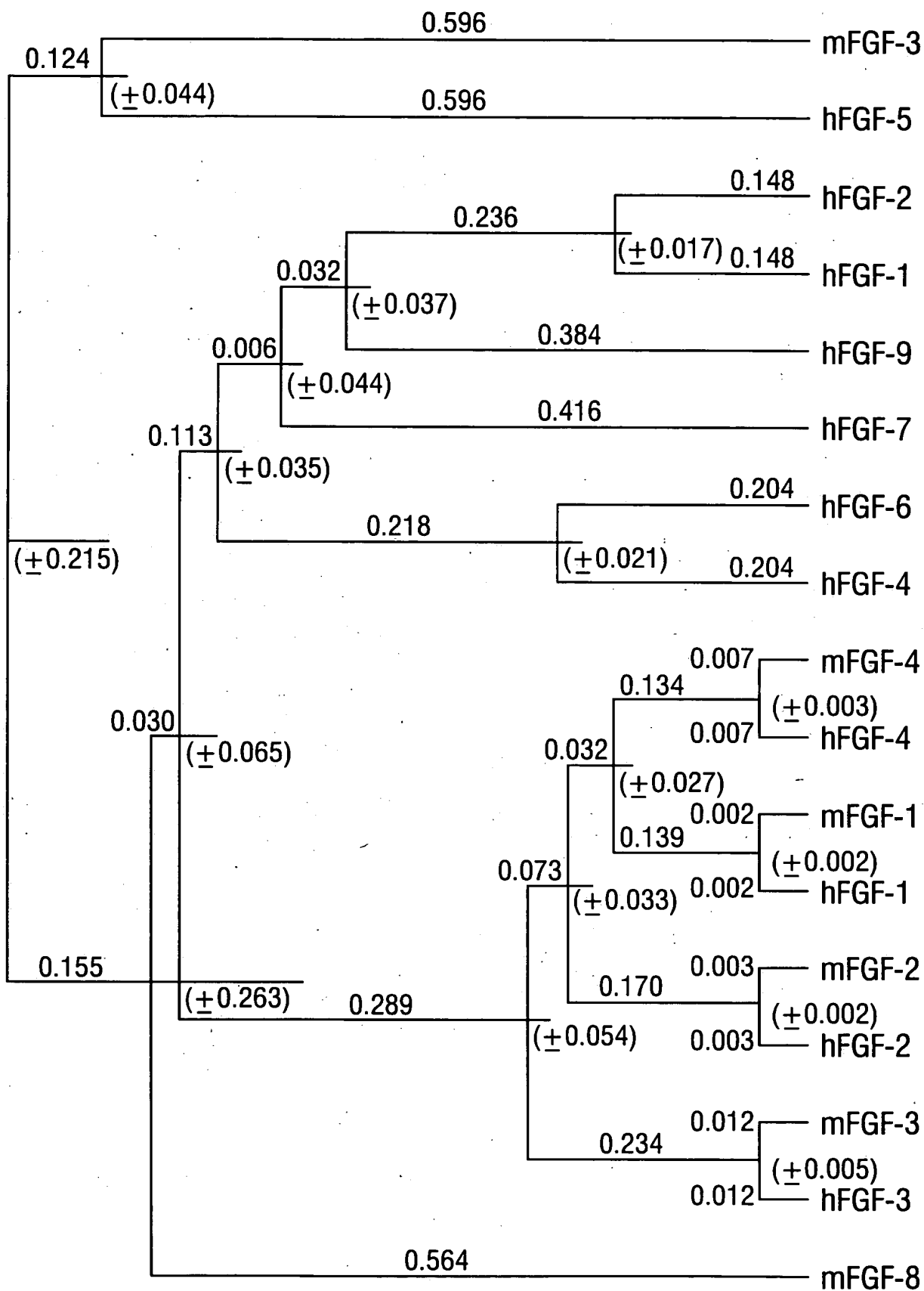


FIG. 4

10/24

FIG. 5A

|              |             |            |            |            |             |            |     |
|--------------|-------------|------------|------------|------------|-------------|------------|-----|
| SEQ ID NO:18 | GAATTCCGCA  | CACTGCGTTC | GGGGTACCAA | GTGGAAGGGG | AAGAACGATG  | CCCAAATAA  | 60  |
|              | CAAGACGTGC  | CTGGGACCGC | CCCGCCCCGC | CCCCCGGCCG | CCAGAGGTTG  | GGGAAGTTTA | 120 |
|              | CATCTCCATT  | TTCACACATT | TTGTCGCCAC | TGCCCAGACT | TTGACTAACC  | TTGTGAGCGC | 180 |
|              | CGGGTTTTCG  | ATACTGCAGC | CTCCTCAAAT | TTTAGCACTG | CCTCCCCGCG  | ACTGCCCTTT | 240 |
|              | CCCTGGCCGC  | CCAGGTCCTG | CCCTCGCCCC | GGCGGAGCGC | AAGCCGGAGG  | GCGCAGTAGA | 300 |
|              | GGCTGGGGCC  | TGAGGCCCTC | GCTGAGCAGC | TATGGCTGCG | GCGATAGCCA  | GCTCCTTGAT | 360 |
|              | SEQ ID NO:1 |            |            | M A A A    | A I A       | S S L I    | 420 |
|              | CCGCGAGAAG  | CGGACGGCGA | GGGAGTCCAA | CAGCGACCGA | GTGTCGGCCT  | CCAAGCGCCG | 480 |
|              | CTCCAGCCCC  | AGCAAAGACG | GGCGTCCCT  | GTGCGAGAGG | CACGTCTCTG  | GGGTGTTTCA | 540 |
|              | CAAAGTGCGC  | TTCTGCAGCG | GCCGCAAGAG | GCCGGTGAGG | CGGAGACCCAG | AACCCACGCT | 600 |
|              | CAAAGGGATT  | GTGACAAGGT | TATTCAGCCA | GCAGGGATAC | TTCTCTGCAG  | TGCACCCAGA | 660 |
|              | TGGTACCATT  | GATGGGACCA | AGGACGAAA  | CAGCGACTAC | ACTCTCTTCA  | ATCTAATTCC | 720 |
|              | CGTGGCCCTG  | CGTGTAGTGG | CCATCCAAGG | AGTGAAGGCT | AGCCTCTATG  | TGGCCATGAA | 780 |
|              | TGGTGAAGGC  | TATCTCTACA | GTTCAAGTGT | TTTCACTCCA | GAATGCAAT   | TCAAGGAATC | 840 |
|              | TGTGTTTGAA  | AACTACTATG | TGATCTATTC | TTCCACACTG | TACCGCCAGC  | AAGAATCAGG |     |



FIG. 6A

SEQ ID NO:19

AATCCGCTT GCACAGTGTC CGCCGGGCGC AGGGGCCGAC CGCACGCAGT CGCGCAGTTC 60  
TGCCTCCGCC TGCCAGTCTC GCCCGCGATC CCGGCCCGGG GCTGTGGCGT CGACTCCGAC 120  
CCAGGCAGCC AGCAGCCCGC GCGGGAGCCG GACCGCCGCC GGAGGAGCTG CCACGGCATG 180  
CTGAGCCCCC TCCTTGCTG AAGCCCCGAGT GCGGAGAAGC CCGGGCAAC GCAGGCTAAG 240  
GAGACCAAAG CGGCGAAGTC GCGAGACAGC GGACAAGCAG GCCACCACAA GGAGGAGGAG 300  
GCGAACCACG AGAGGGGCAG CAAAGAAGC GTGGTGCTG GCGTCGTGG CCATGGCGGC 360

SEQ ID NO:2

GGCTATCGCC AGCTCGCTCA TCCGTCAGAA GAGGCAAGCC CGCGAGCGCG AGAAATCCAA 420  
A I A S S L I R Q K R Q A R E R E K S N  
CGCTGCAAG TGTGTCAGCA GCCCAGCAA AGGCAAGACC AGCTGCGACA AAAACAAGTT 480  
A C K C V S AACTCTTCGG CTCCAAGAAG AGGCGCAGAA GAAGACCAGA K N K L  
AAATGTCTTT TCCCGGGTCA K L F G TTACCAAGCT ATACAGCCGA CAAGGCTACC ACTTGCAGCT R R P E  
N V F S R V V T K L ATGGCACCAA AGATGAGGAC AGCACTTACA CTCTGTTTAA H L Q L  
GCCTCAGCTT AAGGTATAG TACCAAGCT ATGGCACCAA AGATGAGGAC AGCACTTACA CTCTGTTTAA T L F N  
P Q L K G I G T I D G T K GAGTGGTGGC TATCCAAGGA GTTCAAACCA V Q T T Y Y L  
Q A D G T I D G T K GAGTGGTGGC TATCCAAGGA GTTCAAACCA V Q T T Y Y L  
CCTCATCCCT GTGGTCTGC R V V A ACTTGTACAC CTCGGAAGTT TTCACACCTG AGTGCAAATT K L Y L  
L I P V G L ACTTGTACAC CTCGGAAGTT TTCACACCTG TTCACACCTG AGTGCAAATT K L Y L  
GGCAATGAAC AGTGAGGGAT Y L Y T S E L F T P E C K F  
A M N S E G Y L Y T S E L F T P E C K F  
CAAAGAATCA GTGTTTGAAA ATTATTATGT GACATATTCA TCAATGATAT ACCGTCAGCA Y R Q Q  
K E S V F E N Y Y V T Y S S M I Y R Q Q

12/24

FIG. 6B

SEQ ID NO:2 (CONT'D)  
 GCAGTCAGGC CGAGGGTGGT ATCTGGGTCT GAACAAAGAA GGAGAGATCA TGAAAGGCAA 900  
 Q S G R G W Y L G L N K E G E I M K G N  
 CCATGTGAAG AAGAACAAGC CTGCATCTCA TTTTCTGCCT AAACCACTGA AAGTGCCCAT 960  
 H V K K N K P A A H F L P K P L K V A M  
 GTACAAGGAG CCATCACTGC ACGATCTCAC GGAGTTCTCC CGATCTGGAA GCGGACCC 1020  
 Y K E P S L H D L T E F S R S G S G T P  
 AACCAAGAGC AGAAGTGCT CTGGCGTGCT GAACGAGGC AAATCCATGA GCCACAATGA 1080  
 T K S R S V S G V L N G G K S M S H N E  
 ATCAACGTAG CCAGTGAGGG CAAAGAAGG GCTCTGTAA AGAACCTTAC CTCCAGGTGC 1140

TGTTGAATTC

SEQ ID NO:20

GAATTCCGGC TCTTGGGAG CCCAGCGCGC TCCGGGCGCC TGCCGGTTTG GGGTGTCTC 60  
 CTCCCGGGC GCTATGGCGG M A A L A S S L I TAGCCTGATC CGGCAGAAGC GGGAGGTCCG 120

SEQ ID NO:3

CGAGCCCGG GGCAGCCGGC CGGTGTCGGC GCAGCGGCGC GTGTGTCCCC GCGGCACCAA 180  
 E P G G S R P V S A Q R R V C P R G T K  
 GTCCCTTGC CAGAAGCAGC TCCTCATCCT L S K K K L R L C G G R 240  
 S L C Q K Q CCGACCGG GCCCGAGCC TCAGCTCAA GGCATCGTCA CCAAACTGTT 300  
 GCCCGCGCG P D R P E P Q L K K G I V G C L F  
 CTGCCGCCAG GGTTCCTACC TCCAGGCGAA TCCCGACGGA AGCATCCAGG GCACCCAGA 360  
 C R Q G F Y L Q A N P D G S I Q G T P E  
 GGATACCA GC TCCTTCACCC ACTTCAACCT GATCCCTGTG GGCCTCCGTG TGGTCACCAT 420  
 D T S S F T H F N L I P V G L R V V T I  
 CCAGAGCGCC AAGCTGGGTC ACTACATGGC CATGAATGCT GAGGACTGC TCTACAGTTC 480  
 Q S A K L G H Y M A M N A E G L L Y S S

FIG. 7A

13/24

FIG. 7B

SEQ ID NO:3  
GCCGCATTTC ACAGCTGAGT GTCGCTTTAA GGAGTGTGTC TTTGAGAATT ACTACGTCCT 540  
P H F T A E C V F E N Y Y V L  
GTACGCCCTCT GCTCTCTACC GCCAGCGTCG TTCTGGCCGG GCCTGGTACC TCGGCCCTGGA 600  
Y A S A L Y R Q R R S G R A W Y L G L D  
CAAGGAGGGC CAGGTCATGA AGGAAACCG AGTTAAGAAG ACCAAGGCAG CTGCCCCACTT 660  
K E G Q V M K G N R V K K T K A A A H F  
TCTGCCCAAG CTCCTGGAGG TGGCCATGTA CCAGGAGCCT TCTCTCCACA GTGTCCCCGA 720  
L P K L L E V A M Y Q E P S L H S V P E  
GGCTCCCCCT TCCAGTCCCC CTGCCCCCTG AAATGTAGTC CCTGGACTGG AGGTTCCCTG 780  
A S P S S P A P  
CACTCCCAGT GAGCCAGCCA CCACCACAAC CTGTCTCCCA GTCCTGCTCT CACCCCTGCT 840  
GCCACACACA TGCCCTGAGC AGCCAGGTGG CACTAGGTGC TCTACCCCTGA GGGAGCCTAG 900  
GGGCTGACTG TGACTTCCGA GGCTGCTGAG ACCCTTAGAT CTTTGGGCCT AGGAGGGAGT 960

14/24

FIG. 8A

SEQ ID NO: 21  
 CGCGCCCTTC CCCTCCGGTG CCCCCGGGCTC GCCGTCCCTCC CGCGCCCTCC CTCCTCCGGAC 60

CCGTTCCCGG GGCACCATG M A A A GCGCTAGCGG CTGTATCCGC CAGAAGCGGC 120  
 I A S G L I R Q K R

SEQ ID NO: 4  
 AGCGCGGGA GCAGCACTGG GACCGGCCGT CTGCCAGCAG GAGCGGAGC AGCCCCAGCA 180  
 Q A R E Q H W Q H W D R P S A S R S R R S S P S

AGAACC GCGG GCTCTGCAAC GGCAACCTGG TGGATATCTT CTCCAAAGTG CGCATCTTCG 240  
 K N R G L C N G N L G N L V D I F S K V R I F

GCCTCAAGAA GCGCAGGTG R R L R R Q CGCGGCCAAG ATCCCCAGCT CAAGGGTATA GTGACCAGGT 300  
 G L K K R R L R R Q D P Q L K G I V T R

TATATTGCAG GCAAGGCTAC TACTTGCAAA TGCACCCCGA TGGAGCTCTC GATGGAACCA 360  
 L Y C R Q G Y Y L Q M H P D G A L G A T

AGGATGACAG CACTAATTCT ACACCTCTCA ACCTCATACC AGTGGGACTA CGTGTGTGTTG 420  
 K D D S T N S T L F N L I P V G L R V V

CCATCCAGGG AGTGAAAACA GGGTGTGATA TAGCCATGAA TGGAGAAGGT TACCTCTACC 480  
 A I Q G V K T G L Y I A M N G E G Y L Y

CATCAGAACT TTTTACCCCT GAATGCAAGT TTAAGAATC TGTTTTTGAA AATTATTATG 540  
 P S E L F T P E C K F K E S V F E N Y Y

TAATCTACTC ATCCATGTTG TACAGACAAC AGGAATCTGG TAGAGCCTGG TTTTGGGAT 600  
 V I Y S S M L Y R Q Q E S G R A W F L G

TAAATAAGGA AGGGCAAGCT ATGAAAGGA ACAGAGTAA GAAACCAAA CCAGCAGCTC 660  
 L N K E G Q A M K G N R V K K T K P A A

ATTTTCTACC CAAGCCATTG GAAGTTGCCA TGTACCGAGA ACCATCTTG CATGATGRTTG 720  
 H F L P K P L E V A M Y R E P S L H D V

GGGAAACGGT CCCGAAGCCT GGGGTGACGC CAAGTAAAG CACAAGTGCG TCTGCAATAA 780  
 G E T V P K P G V T P S K S T S A S A I

TGAATGGAGG CAAACCAAGT AACAAAGTA AGACAACATA GCCAGATCCT CACAGGTGTT 840  
 M N G G K P V N K S K T T

15/24

16/24

**FIG. 8B**

SEQ ID NO: 4  
GTGACTTATT CGTCCTGAGC ACAGTTGAGT GATTATCCT CACCAGACAT TCCTGCTCCG 900  
TGGCTGAAGA GCAGCAGGAA GTAAGCTAAT GCTTATTCTT TGCTGTCTCC GAAC TTCTCT 960  
GTTGCAAGTG G



17/24

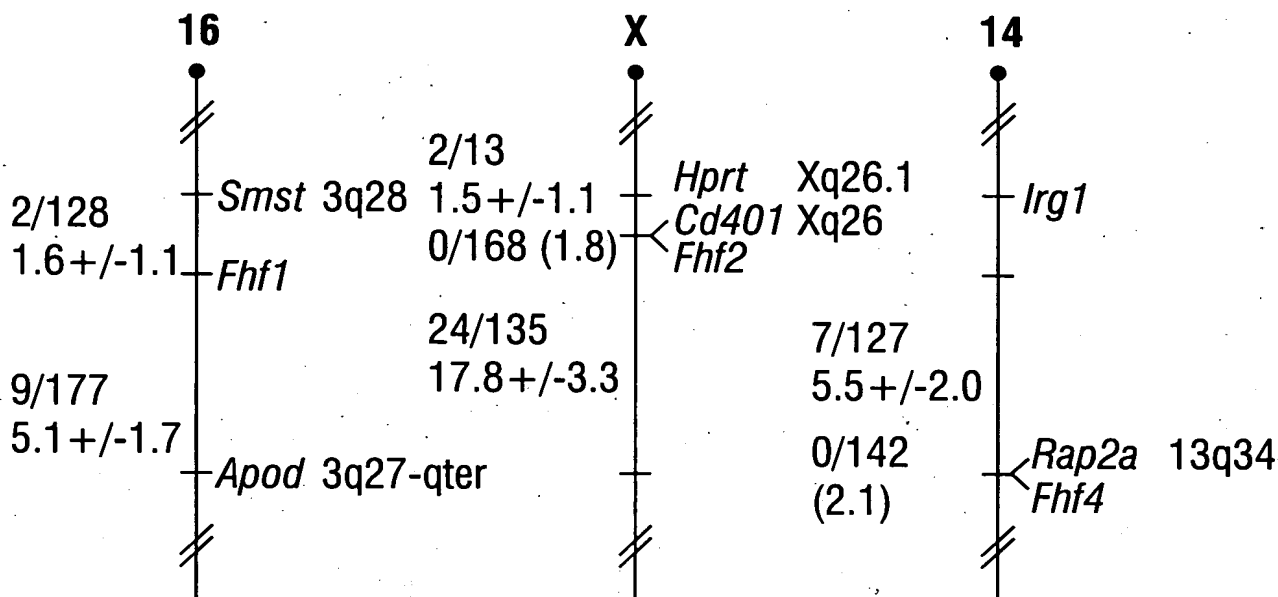


FIG. 9

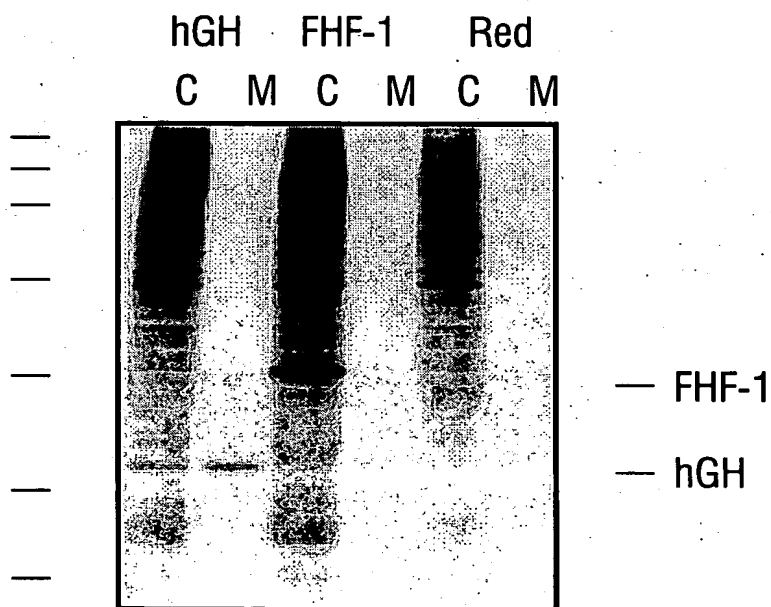


FIG. 13

18/24

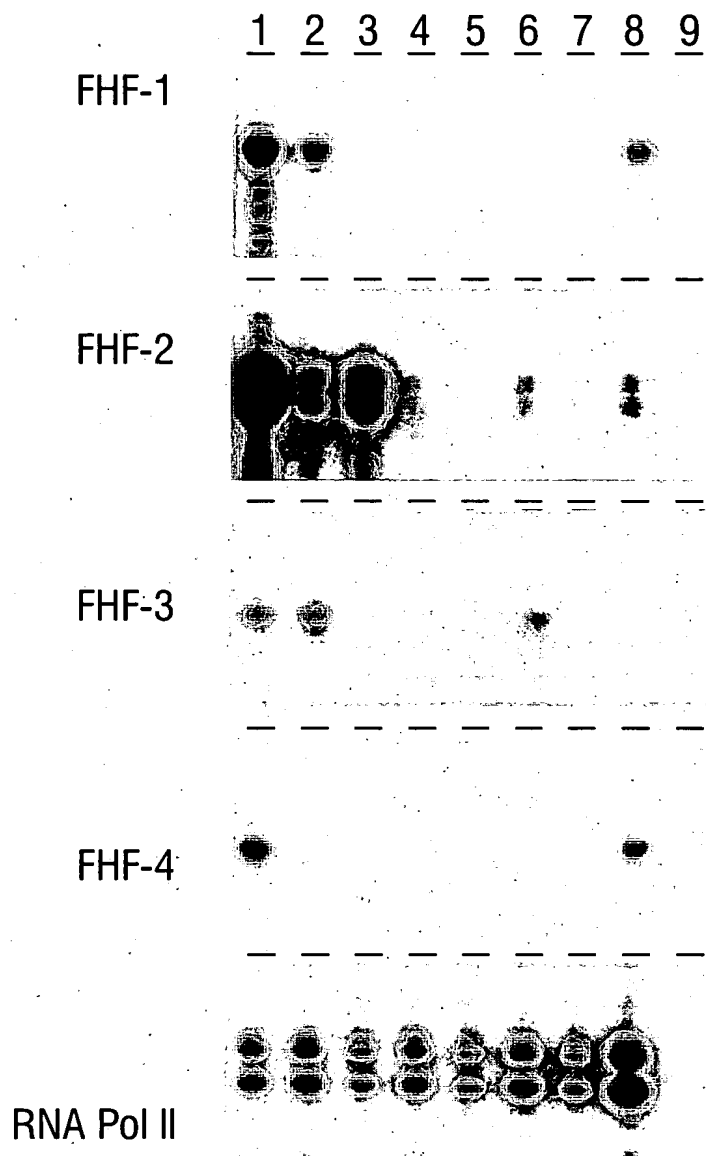


FIG. 10

19/24



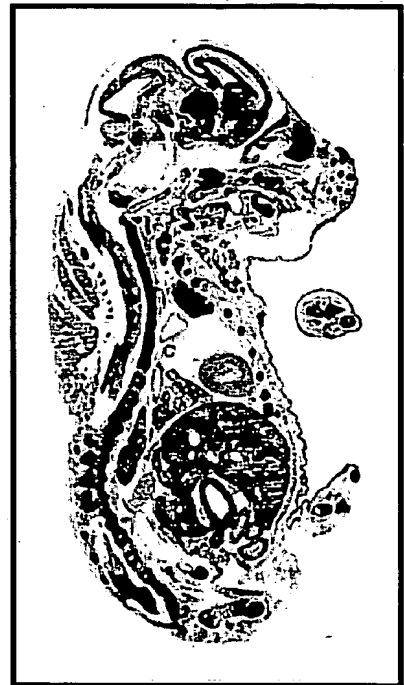
**FIG. 11A**



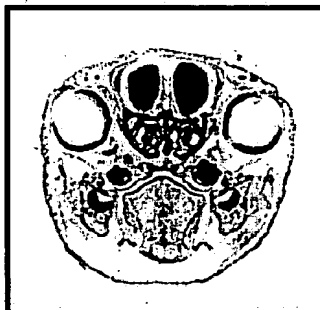
**FIG. 11B**



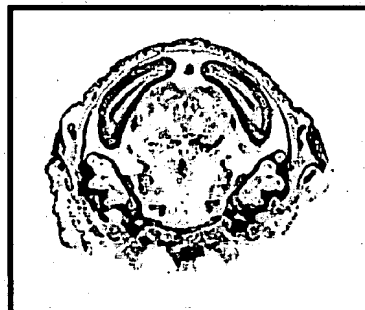
**FIG. 11C**



**FIG. 11D**



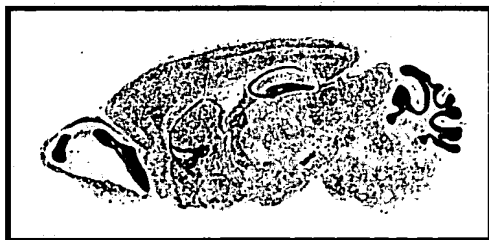
**FIG. 11E**



**FIG. 11F**



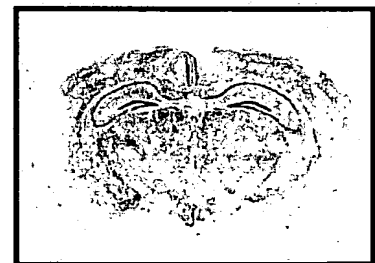
**FIG. 11G**



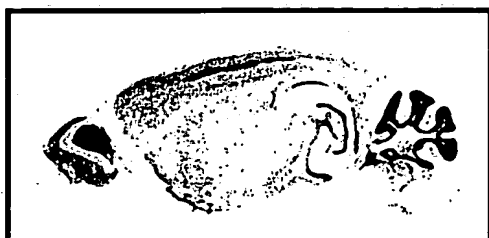
**FIG. 11H**



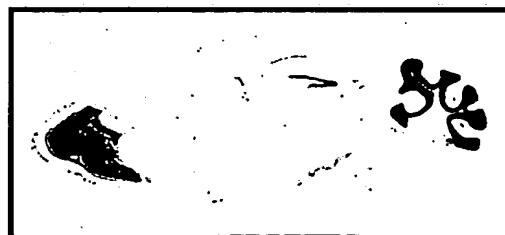
**FIG. 11I**



**FIG. 11L**



**FIG. 11J**



**FIG. 11K**

20/24

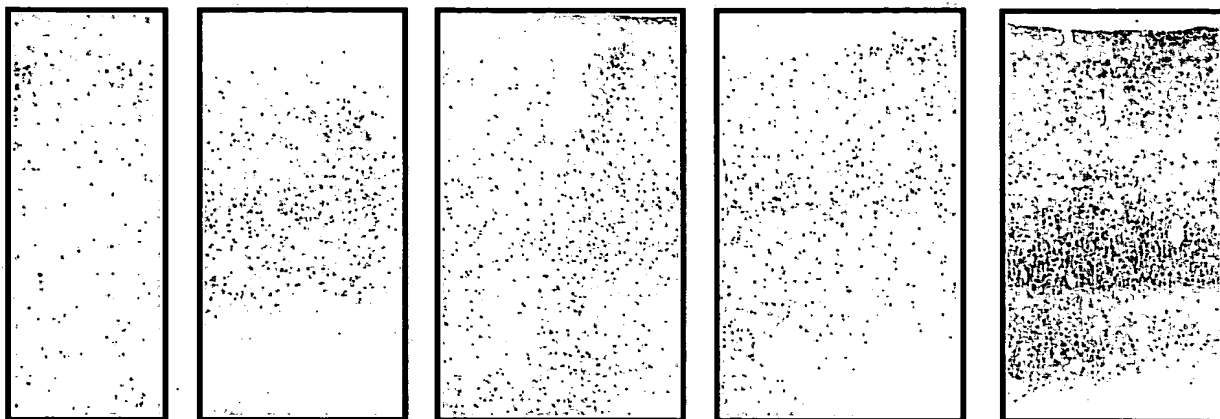


FIG. 12A

FIG. 12B

FIG. 12C

FIG. 12D

FIG. 12E

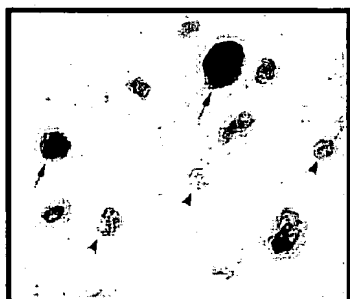


FIG. 12F

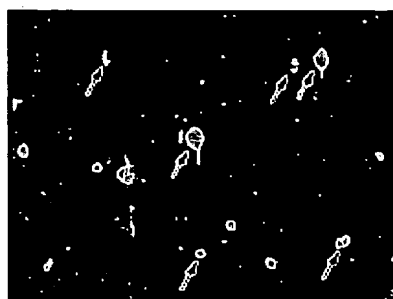


FIG. 12G

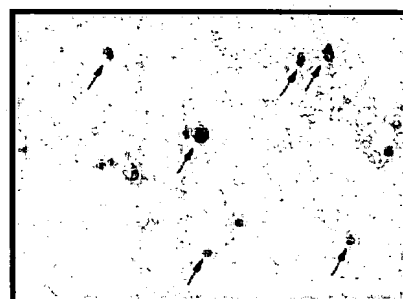


FIG. 12H

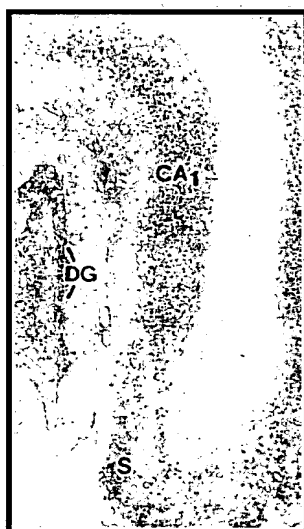


FIG. 12I



FIG. 12J

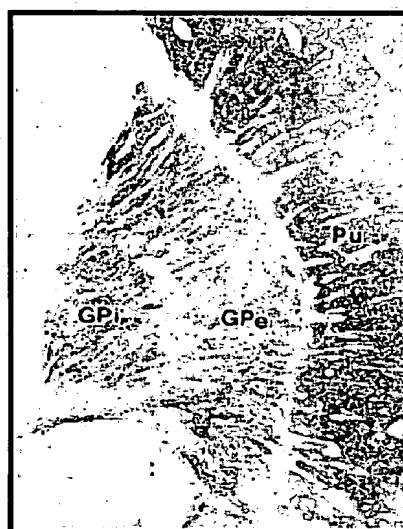


FIG. 12K

21/24

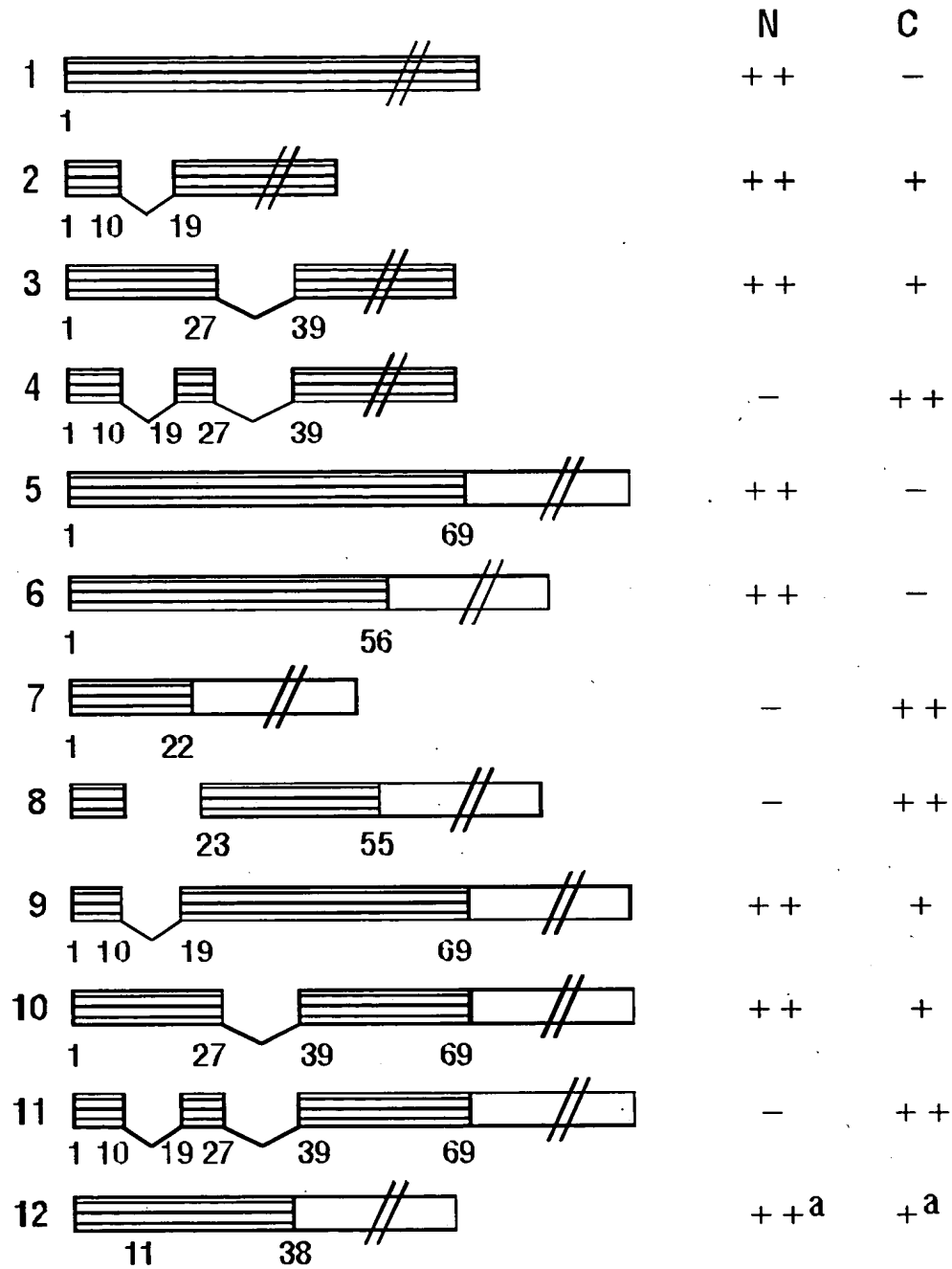
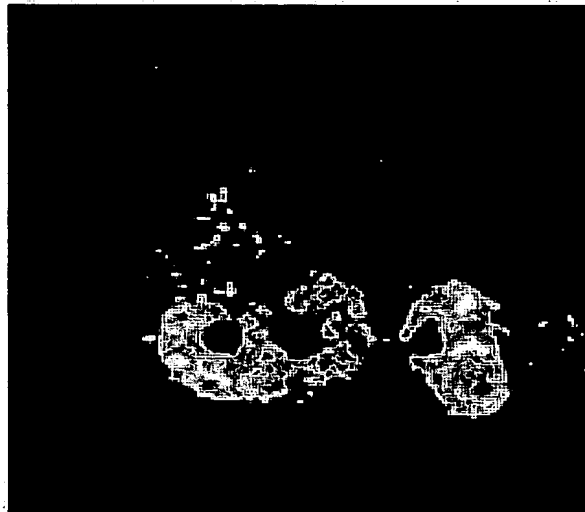
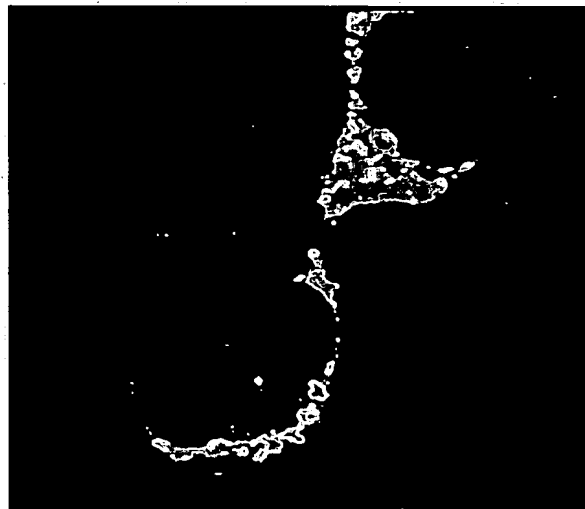


FIG. 14

**22/24**



**FIG. 15A**

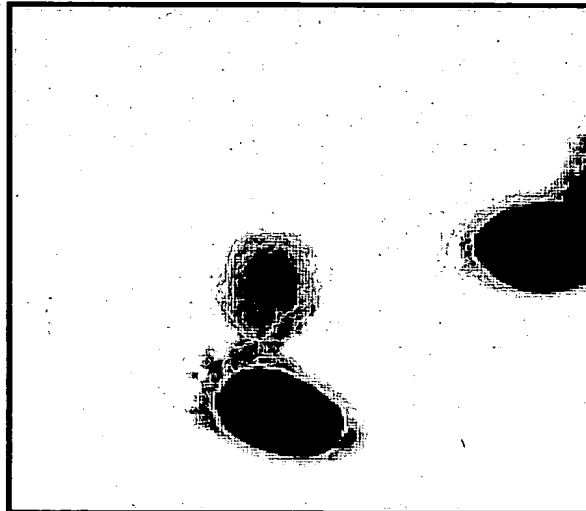


**FIG. 15B**

**23/24**

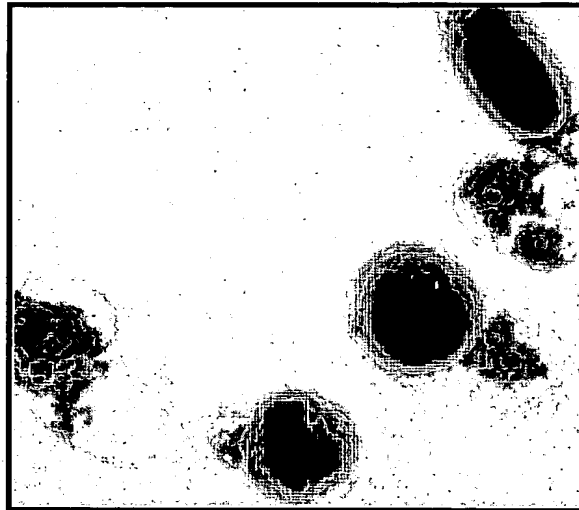


**FIG. 15C**

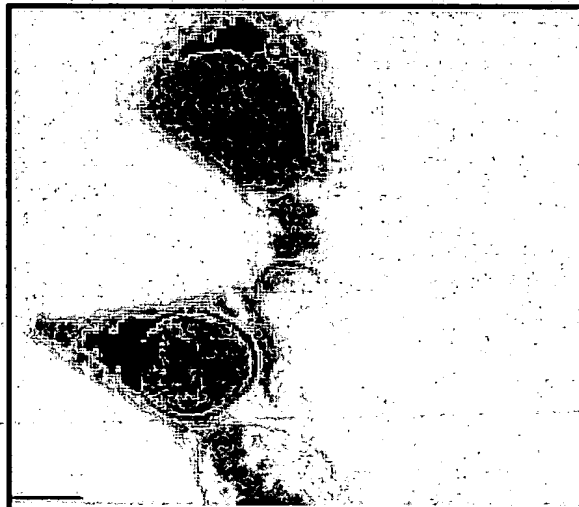


**FIG. 15D**

**24/24**



**FIG. 15E**



**FIG. 15F**